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THE LIGHT CURVE OF 44 i BOOTIS IN 1978

44 i Boo was observed on April 5/6, 1978, with the 75 cm reflector of the Wilhelm Foerster Observatory (Hopp et al. 1977), and on April 6/7, 8/9, 9/10, May 4/5 and 9/10, 1978, with the 35 cm Cassegrain telescope of the Hoher List Observatory (Duerbeck 1978). The first set of observations covers a primary minimum, and was used to derive a minimum time. The second set, whose accuracy is not as high as in previous years due to less favorable sky conditions, was used to derive a mean light curve, with normal points formed from 5 individual observations. The B and V light curves, relative to HR 5581, are shown in Figure 1. The times of minimum light are reduced to J.D. 2 443 607.

The O - C values of the observed minimum times are, according to the elements of Duerbeck (1975) :

J.D.hel. (2 443 000 +)	O - C	m.e.	Observer
604.588	-0.003	± 0.003	Hopp et al.
607.5379	+0.0009	± 0.0013	Duerbeck & Karimie (primary min.)
607.8107	+0.0059	± 0.0026	" " (secondary min.)

The period has obviously remained constant; the significant deviation of the secondary minimum is possibly caused by a disturbance in the light curve.

In both colours, the primary minimum is $0^m.016$ deeper than the secondary minimum, and the maximum at phase 0.25 is $0^m.011$ higher than that at phase 0.75. Considering the inequality of the maxima in previous years (Duerbeck 1978), the maximum at phase 0.25 has continuously increased in height, and it is now the higher one.

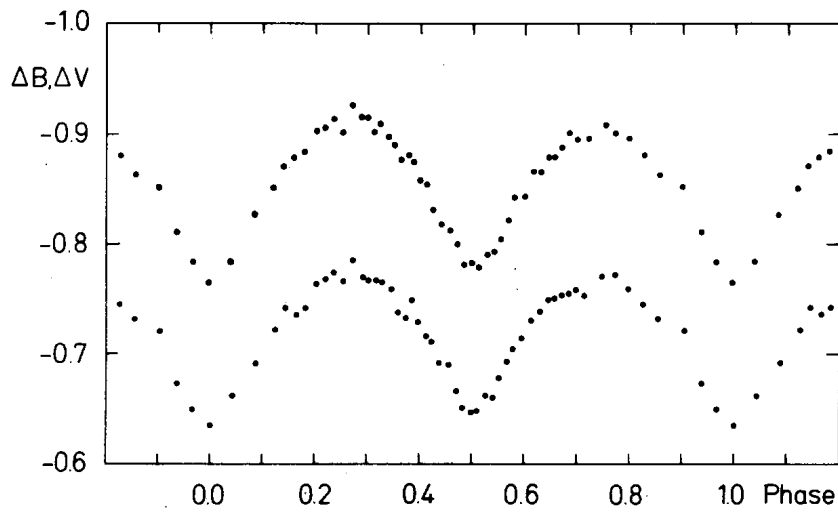


Fig. 1. Light curves of i Boo relative to HR 5581- upper: B, lower: V.

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